

NEET ANATOMY OF FLOWERING PLANTS — THE TISSUE SYSTEM (EPIDERMAL, GROUND, VASCULAR) — PYQS

Max. Marks: 52

Questions: 13

Section A (MCQ) — 13 questions

Q.1 Match **List I** with **List II** : [NEET (UG) 2026]

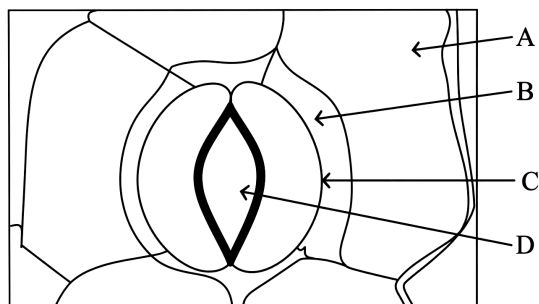
List-I		List-II	
A.	Conjunctive tissue	I.	Specialised cells in the vicinity of guard cells
B.	Casparian strips	II.	Endodermal cells rich in starch
C.	Subsidiary cells	III.	Tissue between xylem and phloem
D.	Starch sheath	IV.	Endodermal cells with suberin deposition

- (1) A-IV, B-III, C-II, D-I (2) A-III, B-IV, C-I, D-II
(3) A-IV, B-III, C-I, D-II (4) A-III, B-IV, C-II, D-I

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Q.2 In the given figure, which component has thin outer walls and highly thickened inner walls?

[NEET (UG) 2024]



- (1) C (2) D (3) A (4) B

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Q.3 Read the following statements about the vascular bundles:

- A. In roots, xylem and phloem in a vascular bundle are arranged in an alternate manner along the different radii.
B. Conjoint closed vascular bundles do not possess cambium
C. In open vascular bundles, cambium is present in between xylem and phloem

D. The vascular bundles of dicotyledonous stem possess endarch protoxylem

E. In monocotyledonous root, usually there are more than six xylem bundles present

Choose the correct answer from the options given below : [NEET (UG) 2022]

- (1) A, B and D only (2) A, B, C, D and E only
(3) A, B, C and D only (4) A, C, D and E only

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Q.4 Stomata in grass leaf are [NEET 2018]

- (1) kidney-shaped (2) barrel-shaped
(3) dumb-bell shaped (4) rectangular

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Q.5 Specialised epidermal cells surrounding the guard cells are called - [NEET 2016 (Phase 1)]

- (1) Lenticels (2) Complementary cells
(3) Bulliform cells (4) Subsidiary cells

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Q.6 Vascular bundles in monocotyledons are considered closed because [AIPMT 2015 (Cancelled)]

- (1) There are no vessels with perforations
(2) Xylem is surrounded all around by phloem
(3) A bundle sheath surrounds each bundle
(4) Cambium is absent

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Q.7 Which of the following statements is not true for stomatal apparatus ? [NEET 2013 (Karnataka)]

- (1) Stomata are involved in gaseous exchange
(2) Inner walls of guard cells are thick
(3) Guard cells invariably possess chloroplasts and mitochondria
(4) Guard cells are always surrounded by subsidiary cells

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Q.8 Closed vascular bundles lack [AIPMT 2012 (Prelims)]

- (1) Ground tissue (2) Conjunctive tissue
(3) Cambium (4) Pith

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Q.9 Some vascular bundles are described as open because these : [AIPMT 2011 (Mains)]

- (1) are capable of producing secondary xylem and phloem
(2) are not surrounded by pericycle
(3) possess conjunctive tissue between xylem and phloem
(4) are surrounded by pericycle but no endodermis

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Q.10 Ground tissue includes : [AIPMT 2011 (Prelims)]

- (1) All tissues external to endodermis
(2) Epidermis and cortex
(3) All tissues internal to endodermis
(4) All tissues except epidermis and vascular bundles

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Q.11 In land plants, the guard cells differ from other epidermal cells in having [AIPMT 2011 (Prelims)]

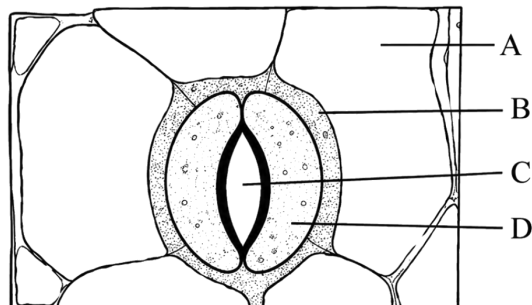
- (1) cytoskeleton
(2) mitochondria
(3) endoplasmic reticulum
(4) chloroplasts

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Q.12 Given below is the diagram of a stomatal apparatus. In which of the following all the four parts labelled as A, B, C and D are correctly identified?

[AIPMT 2010 (Mains)]



- (1) A → Epidermal cell, B → Subsidiary cell, C → Stomatal aperture, D → Guard cell
(2) A → Subsidiary cell, B → Epidermal cell, C → Guard cell, D → Stomatal aperture
(3) A → Guard cell, B → Stomatal aperture, C → Subsidiary cell, D → Epidermal cell
(4) A → Epidermal cell, B → Guard cell, C → Stomatal aperture, D → Subsidiary cell

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Q.13 In which of the following plants sunken stomata are found? [AIPMT 2001]

- (1) *Nerium* (2) *Hydrilla* (3) Mango (4) Guava

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	2	1	2	3	4	4	4	3	1	4	4
Ques.	12	13									
Ans.	1	1									